

BT-O2C

Chemical Properties

CAS No. : 3055107-34-8

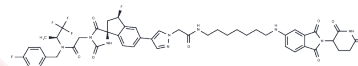
Formula: C48H48F5N9O8

Molecular Weight: 973.94

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	BT-O2C is a highly selective p300 PROTAC degrader that effectively reduces p300 levels in HAP1 cells. It exhibits significant cytotoxicity in CIC:DUX4 sarcoma (CDS) cell lines, with an IC50 of 152-221 nM, and notably decreases the expression of CDS target genes (ETV1, ETV4, ETV5). BT-O2C is applicable in cancer research.
Targets(IC50)	Epigenetic Reader Domain, Histone Acetyltransferase, PROTACs
In vitro	BT-O2C, at concentrations ranging from 0.1-10 µM over 24 hours, notably degrades p300 in HAPI cells, while its effect on CBP degradation is minor. In NCC-CDS-X1 (IC 50 = 152 nM) and KITRA (IC 50 = 221 nM) cells, BT-O2C at 0.25-4 µM over 48-72 hours exhibits significant cytotoxicity. Additionally, using BT-O2C at 4 µM for 6 hours significantly reduces the expression of CDS target genes in NCC-CDS-X1 cells.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0268 mL	5.1338 mL	10.2676 mL
5 mM	0.2054 mL	1.0268 mL	2.0535 mL
10 mM	0.1027 mL	0.5134 mL	1.0268 mL
50 mM	0.0205 mL	0.1027 mL	0.2054 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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